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Final - December 14, 1987  
First Draft - November 16, 1987



Preliminary Assessment  
of  
Uintah Drums  
Vernal, Utah  
UTD981542145

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SEITE ASSESSMENT

SAS035

Preliminary Assessment -- Executive Summary  
 Uintah Drums  
 Vernal, Utah  
 UTD981542145

In mid-May 1986, the Utah Department of Health was notified by the Uintah Basin District Health Department that there was a site in the Vernal area that contained a number of leaking drums. Laurie Goldner and Jim Salmon of the Bureau of Solid and Hazardous Waste went to Vernal on May 22 to stabilize the site and control any immediate hazards to public health or the environment.

The drums were located on property owned by R. W. Pease and leased by Jack Durbin. Durbin apparently used the property to store products related to the oil well drilling industry. At the site, there were 96 55-gallon drums and 42 5-gallon pails. Although the 5-gallon pails were intact, a number of the drums were corroded and leaking. Some of the leaking drums had plastic inner liners and contained an acidic yellow crystalline substance, possibly ammonium bisulfite (information provided by Durbin). Four drums appeared to contain oil with solvents and/or diesel fuel, and nine drums contained organic liquids, possibly surfactants or resins.

The site had been noticed by the local health department because some of the leaked material had run under the property fence and was accessible to the general public. By the time State representatives arrived, the local health department had hired a contractor who placed a soil berm around the leaking drums. Salmon and Goldner assessed the site upon arrival on May 22, and took steps to further mitigate the threat to human health and the environment. Several drums were repositioned to control leaks, and incompatibles were separated by moving the 5-gallon containers to pallets some distance from the leaking acid drums. Arrangements were made with a contractor to move 55-gallon drums containing organics away from the leaking acid drums, and to cover the leaking drums with plastic and place a complete soil berm around them. Salmon and Goldner also collected nine samples of drum contents and stained soil.

Before the contractor could initiate work, Jack Durbin, the owner of the materials, came forward and agreed to take responsibility for the drums. Over the next several days, Durbin repacked the 30 drums containing the acidic yellow crystalline material and the other deteriorating drums. All visibly contaminated soil was also picked up and overpacked. Oil and diesel fuel drums were moved to a safe location at the southwest corner of the property.

Laboratory analysis of the samples revealed that the yellow crystalline material was primarily composed of elemental sulfur with a pH of 3 and no leachable heavy metals as determined by the EP Toxicity Test. One sample appeared to be a surfactant solution that was ignitable due to its 10%

alcohol content. Two drums of this surfactant had been found leaking. The sample collected from the drum of oily material that had been leaking appeared to be gear lube with only small amounts of methylene chloride and toluene. The other samples that appeared to be waste oils contained various solvents. However, these drums had not been leaking.

On September 25, 1987, Lowell Card of the Uintah Basin District Health Department conducted a perimeter survey of the site. The site appeared to be orderly and contained only 5-6 drums. Those were sealed and in good condition. No chemicals were observed on the soil, although an asphalt area had an oily film on it.

Based on the past activities and current condition of the site, this Preliminary Assessment recommends no further action. The nature and volume of the contamination from the time that the drums were leaking does not appear to be of major concern. There was no indication of surface water involvement, and there is virtually no use of groundwater in the Vernal area. Even if there was some residual soil contamination from the leaking barrels, the property is restricted, and there are no pathways through which target populations could be reached.

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SITE ASSESSMENT

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SITE/SITE ASSESSMENT

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POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NO.  
UT0981542145

II. SITE NAME AND LOCATION

01 SITE NAME (Logo, common or descriptive name of site)  
Uintah Drums

02 STREET, ROUTE NO., OR SPECIFICATION LOCATION IDENTIFIER  
1336 East 335 South

03 CITY  
Vernal

04 STATE 05 ZIP CODE 06 COUNTY  
Utah 84078 Uintah

07 COUNTY CODE  
047

08 CONG DIST.  
03

09 COORDINATES

LATITUDE

40 26 30.

LONGITUDE

109 30 15.

10 DIRECTIONS TO SITE (Starting from nearest public road)  
As you enter Vernal from the west on Highway 40, turn right on 335 South Street. Site

is on the north side of 335 South Street.

III. RESPONSIBLE PARTIES

01 OWNER (if known)

R. W. Pease

02 STREET (Business, mailing, residential)  
646 East 250 North

03 CITY

Vernal

04 STATE

Utah

05 ZIP CODE

84078

06 TELEPHONE NUMBER

789-1101 or 789-0580

07 OPERATOR (if known and different from owner)  
Jack Durbin; Crown Mud, Inc.

08 STREET (Business, mailing, residential)  
625 East 500 South

09 CITY

Vernal

10 STATE

Utah

11 ZIP CODE 12 TELEPHONE NUMBER

84078

489-5137

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE

B. FEDERAL:

C. STATE

D. COUNTY

E. MUNICIPAL

F. OTHER:

G. UNKNOWN

(Specify)

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

A. RCRA 3001 DATE RECEIVED \_\_\_/\_\_\_/\_\_\_

B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED \_\_\_/\_\_\_/\_\_\_

☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)

☒ YES DATE 05/22/86

NO

A. EPA

B. EPA CONTRACTOR

☒ C. STATE

D. OTHER CONTRACTOR

☒ E. LOCAL HEALTH OFFICIAL

F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (check one)

A. ACTIVE

☒ B. INACTIVE

C. UNKNOWN

03 YEARS OF OPERATION

BEGINNING YEAR

ENDING YEAR

☒ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED

Drums of various products associated with the oil well drilling industry had been stored on site. They were found to be deteriorated/leaking in May 1986, at the time the site was placed on the CERCLIS list. Leaking drums have since been removed by the owner.



05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

None. The operator of the site has removed the leaking drums and stained soil that were present when the site was placed on the CERCLIS list.

V PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

A. HIGH

(inspection required promptly)

B. MEDIUM

(inspection required)

C. LOW

(inspect on time available basis)

☒ D. NONE

(No further action needed, complete current disposition form)

VI INFORMATION AVAILABLE FROM

01 CONTACT

Lowell Card

02 OF (Agency, Organization)

Uintah Basin District H.D.

03 TELEPHONE NUMBER

801-781-0770

04 PERSON RESPONSIBLE FOR ASSESSMENT

Laurie Goldner

05 AGENCY

Health

06 ORGANIZATION

Solid & Haz Waste

07 TELEPHONE NO.

801-538-6170

08 DATE

11-16-87

EPA FORM 2070-12(7-81)

PROPERTY OF THE GOVERNMENT  
NOT TO BE REPRODUCED  
WITHOUT AUTHORIZATION

SEITE ASSESSMENT

SAS035

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION  
01 STATE 02 SITE NO.  
UTD981542145

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A. SOLID  
B. POWDER, FINES  
C. SLUDGE  
D. OTHER \_\_\_\_\_  
(Specify)

- E. SLURRY  
F. LIQUID  
G. GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities  
must be independent)

TONS \_\_\_\_\_

CUBIC YARDS \_\_\_\_\_

NO. OF DRUMS 5-61

03 WASTE CHARACTERISTICS (Check all that apply)

- A. TOXIC  
B. CORROSIVE  
C. RADIOACTIVE  
D. PERSISTENT  
E. SOLUBLE  
F. INFECTIOUS  
G. FLAMMABLE  
H. IGNITABLE

I. HIGHLY VOLATILE

J. EXPLOSIVE

K. REACTIVE

L. INCOMPATIBLE

☒ M. NOT APPLICABLE

III. WASTE TYPE

CATE-

GORY SUBSTANCE NAME 01 GROSS AMOUNT 02 UNIT OF MEASURE 03 COMMENTS

SLU SLUDGE

OLW OILY WASTE

SOL SOLVENTS

PSD PESTICIDES

OCC OTHER ORGANIC CHEMICALS

IOC INORGANIC CHEMICALS

ACD ACIDS

BAS BASES

MES HEAVY METALS

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
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V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
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FDS

FDS

FDS

FDS

FDS

FDS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Letter from Lowell Card to Laurie Goldner, September 25, 1987. See Attachment C: Site Update.

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - SITE INFORMATION AND ASSESSMENTI. IDENTIFICATION  
01 STATE 02 SITE NO.  
UTD981542145

## II. HAZARDOUS CONDITIONS AND INCIDENTS

X 01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: approx. 3004 NARRATIVE DESCRIPTION Contaminated soil collected on-site in 5-86 contained primarily elemental sulfur with no appreciable concentrations of metals.<sup>2</sup> Visibly contaminated soil was drummed and removed shortly thereafter.<sup>3</sup> Groundwater is near the surface in the site vicinity (<10 feet), so there is the potential that some contamination occurred.<sup>4</sup> However, there is very limited use of groundwater--see G below.01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION Not likely to occur. No source material remains on site; no evidence of connection to surface water was observed when site was investigated in 5-86 (when leaking drums were present).

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION No source of air contamination exists on-site. Not likely to occur.

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION No evidence of fire/explosive conditions exists.

01 E. DIRECT CONTACT 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 004 NARRATIVE DESCRIPTION Not likely to occur. According to 9-25-87 site visit by Lowell Card<sup>1</sup>, the site was closed and entry restricted. The 5-6 drums remaining on-site were sealed and not leaking.X 01 F. CONTAMINATION OF SOIL X 02 OBSERVED (DATE: 5-22-87) POTENTIAL ALLEGED  
03 AREA POTENTIALLY AFFECTED: <0.1 acre04 NARRATIVE DESCRIPTION Small area of contaminated soil (approx. 15 X 20') observed during 5-22-86 site visit.<sup>3</sup> Sample of spilled material was collected and analyzed; results showed that it was composed primarily of elemental sulfur and was not a characteristic hazardous waste. No chemicals were observed coming up from the soil on 9-25-87, although an oil sheen was seen on the paved area.<sup>1</sup>X 01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: approx. 3004 NARRATIVE DESCRIPTION There are 4 private wells within a 3-mile radius that serve 3 families (approx. 10 people).<sup>5</sup> There is also a spring or well at the Coca Cola Bottling Plant that 4-5 families use as a drinking water supply (apparently because they prefer not to use chlorinated city water).<sup>4</sup> There are no public water supply wells in the entire county.<sup>6</sup>01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION Not likely to occur. No evidence of conditions that would be dangerous to workers exists.

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION No threat of population exposure/injury.

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - SITE INFORMATION AND ASSESSMENT

## I. IDENTIFICATION

01 STATE 02 SITE NO.  
UTD981542145

## II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (Date: \_\_\_\_\_) POTENTIAL ALLEGED  
04 NARRATIVE DESCRIPTION Not likely to occur.01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
04 NARRATIVE DESCRIPTION Not likely to occur.01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
04 NARRATIVE DESCRIPTION Not likely to occur.01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (Date: 5-22-86) POTENTIAL ALLEGED  
(Soils/runoff/standing liquids/leaking drums)  
03 POPULATION POTENTIALLY AFFECTED: 0  
04 NARRATIVE DESCRIPTION Leaking drums, contaminated soil observed on 5-22-87.  
Drums and stained soil overpacked and removed shortly thereafter. No unstable waste  
containment observed on 9-25-87.01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
04 NARRATIVE DESCRIPTION Not likely to occur.01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION POTENTIAL ALLEGED  
Not likely to occur.01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
04 NARRATIVE DESCRIPTION  
Material had been stored on-site by lessee--no illegal or unauthorized dumping.05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS  
None known.

III. TOTAL POPULATION POTENTIALLY AFFECTED: approximately 30

## IV. COMMENTS

No further action is recommended at this site. The owner of the drums, Jack Durbin,  
took responsibility for the site and effected the cleanup shortly after the site came to  
the attention of the Utah Department of Health in May 1986.V. SOURCES OF INFORMATION (Cite specific references, e.g., state files,  
sample analysis, reports)

2. Sample results, May 28, 1986. See Attachment A: Sample Results.
3. See Attachment B: Summary of Drum Containment Activity (5-22-86).
4. Personal communication; Lowell Card, Uintah Basin District Health Dept., (801)  
781-0770
5. Utah Department of Natural Resources Well Records, October 1986. See Attachment D:  
Well Records.
6. "Water Use Data for Public Water Suppliers in Utah 1981," Utah Department of Natural  
Resources.

Attachment A: Sample Results

HW-5 6/85

UTAH STATE HEALTH LABORATORY  
44 Medical Dr. SLC, Utah 84113 (801) 533-6131

ENVIRONMENTAL CHEMISTRY

TOTAL METALS AND OTHER ANALYSES

LAB NUMBER

Field No. 0436-111

☐ Known Hazardous Waste

☐ Unknown Material

Date Collected 56 05 72

Time Collected 1200

County Uintah

Sample collected by Jim Galtman

24 hr. clock

Sample Type

Facility from which sample was collected Pacific Power & Light Co.

Exact description of sampling point Drum #17

Field tests Acid - Alkal

Send report to Jim Galtman

Address B. S. H. W.

Date and time received by Lab.

This drum  
was leaking  
onto soil.

phone No. 538-6170

Zip Code

OTHER ANALYSES

☐ Oil and Grease

PPM

☐ T.K.N.

PPM

☐ Reactive HCN

PPM

☒ Reactive H<sub>2</sub>S

<1

PPM

☒ pH 1 in 20

3.0

☐ Solids

93.5%

TOTAL METALS

check one of the following  
8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)

☐ or all 18 Metals listed below

☐ or only those Metals checked below

\*\*\*\*\*

☐ Aluminum PPM

☐ Arsenic <1.5 PPM

☐ Barium <5 PPM

☐ Beryllium PPM

☐ Cadmium <1.5 PPM

☐ Chromium <5 PPM

☐ Cobalt PPM

☐ Copper PPM

☐ Iron PPM

☐ Lead <10 PPM

☐ Manganese PPM

☐ Mercury <0.1 PPM

☐ Molybdenum PPM

☐ Nickel PPM

☐ Selenium <1.5 PPM

☐ Silver <1.5 PPM

☐ Vanadium PPM

☐ Zinc PPM

\*\*\*\*\*

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JUN 26 1986

Utah State Div. Of  
Environmental Health

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by Doyle Gregory Jenkins

Analysis Certified By Man Date 24 June 86

HW-1 2/82  
ENVIRONMENTAL CHEMISTRY HAZARDOUS WASTES CHARACTERISTICS REPORT FORM

UTAH STATE HEALTH LABORATORY

MAY 23 1986  
SEC Utah 84110  
(801) 533-6131

Field No. 84-56-111 ☐ Known Hazardous Waste ☐ Unknown Material LAB NUMBER \_\_\_\_\_

Date Collected 56 05 22 Time Collected 1200 County UTAH  
year/month/day 24-hr. clock

Sample Collected by J. SALMON

Sample Type Solid sludge

Facility from which sample was collected \_\_\_\_\_

Exact description of sampling point Drum # 117

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JUN 26 1986

Field tests litmus paper - acid

Utah State Div. Of  
Environmental Health

Send Report to Jim Salmon Telephone No. 538-6170  
BEHUN

Date and Time received by Lab \_\_\_\_\_ Received by \_\_\_\_\_ Zip Code \_\_\_\_\_

\*\*\*\*\*

IGNITABILITY (D001) \_\_\_\_\_

CORROSIVITY (D002) pH 3.0 (1 in 20)

Other \_\_\_\_\_

REACTIVITY (D003) litmus < 1 ppm

EP TOXICITY:	EPA Hazardous Waste Number	Contaminant	Maximum Allowable Concentration	Reported Concentration
	D004	Arsenic	5.0 ppm	<u>&lt; 0.1</u> ppm
	D005	Barium	100.0 ppm	<u>&lt; 1</u> ppm
	D006	Cadmium	1.0 ppm	<u>&lt; 0.1</u> ppm
	D007	Chromium (hexa)	5.0 ppm	<u>&lt; 1</u> ppm
	D008	Lead	5.0 ppm	<u>&lt; 2</u> ppm
	D009	Mercury	0.2 ppm	<u>&lt; 0.002</u> ppm
	D010	Selenium	1.0 ppm	<u>&lt; 0.1</u> ppm
	D011	Silver	5.0 ppm	<u>&lt; 0.1</u> ppm
	D012	Endrin (1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo, endo-5,8-dimethano naphthalene)	0.02 ppm	_____ ppm
	D013	Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)	0.4 ppm	_____ ppm
	D014	Methoxychlor (1,1,1-trichloro-2,2-bis (p-methoxyphenyl) ethane)	10.0 ppm	_____ ppm
	D015	Toxaphene (C <sub>10</sub> H <sub>10</sub> Cl <sub>8</sub> , Technical chlorinated camphene, 67-69 percent chlorine)	0.5 ppm	_____ ppm
	D016	2,4-D (2,4-dichlorophenoxyacetic acid)	10.0 ppm	_____ ppm
	D017	2,4,5-TP Silvex (2,4,5-trichlorophenoxypropionic acid)	1.0 ppm	_____ ppm

This drum was leaking onto soil.  
JL

Sample was processed and analyzed in accordance with EPA Document SW-846 and subsequent revisions

Preparation and analyses performed by Douglas Gregory Jenkins

Analyses certified by P. Quan Date 24 June 86

## EPA METHOD 625 (GC/MS)

Base Neutral/Acid Extractables

Set # 3895-3900

Lab # May 28 RPB

86-4149

FOR LAB USE ONLY

Send Report To:

Utah State Dept of Health  
44 Medical Drive  
Salt Lake City, UT 84113Field # CW 86 114 Date/Time Collected 5-22-86 12:45 Sample Matrix Soil  
Collected By J. Salomon Sampling Site House Construction Vernal UT  
Exact Description of Sampling Point Spill area off site in front of main gateAnalyst J. Salomon Date Rec'd 5-28-86 Date Analyzed 6-20-86  
Aliquot Sample Extracted 10 gm Final Extract Volume 1 ml

(MDL based on 30 g extracted, 1 ml final volume)

X Name	in ug/Kg MDL/Results	X Name	in ug/Kg MDL/Results
Acenaphthene	33.0	Naphthalene	265.0 60.
Acenaphthylene	66.0	2-Nitroaniline	530.0
Anthracene	99.0	4-Nitroaniline	1000.0
Aniline	130.0	Nitrobenzene	99.0
Benzidine	2700.0	2-Nitrophenol	130.0
Benzo(a)anthracene	230.0	4-Nitrophenol	590.0
Benzo(b)fluoranthene	230.0	n-Nitrosodimethylamine	260.0
Benzo(k)fluoranthene	130.0	n-Nitrosodiphenylamine	240.0 170.
Benzo(a)pyrene	360.0	Pentachlorophenol	960.0
Benzo(ghi)perylene	430.0	Phenanthrene	240.0 130.
Benzylbutylphthalate	230.0	Phenol	99.0
Benzyl alcohol	560.0	Pyrene	130.0
Benzoic acid	1000.0	1,2,4-Trichlorobenzene	66.0
Bis(2-chloroethyl)ether	99.0	2,4,6-Trichlorophenol	130.0
Bis(2-chloroethoxy)methane	99.0		
Bis(2-chloroisopropyl)ether	99.0		
Bis(2-ethylhexyl)phthalate	430.0 510.		
4-Bromophenyl phenyl ether	200.0		
4-Chloraniline	300.0		
2-Chloronaphthalene	66.0		
4-Chloro-3-methyl phenol	200.0		
2-Chlorophenol	66.0		
4-Chlorophenyl phenyl ether	130.0		
Chrysene	99.0		
Dibenz(a,h)anthracene	530.0		
Dibenzofuran	66.0		
Di-n-butyl phthalate	170.0 J		
1,3-Dichlorobenzene (meta)	66.0		
1,2-Dichlorobenzene (ortho)	170.0		
1,4-Dichlorobenzene (para)	33.0		
3,3-Dichlorobenzidene	790.0		
2,4-Dichlorophenol	130.0		
2,4-Dimethylphenol	200.0		
Diethyl phthalate	130.0		
2,4-Dinitrophenol	1000.0		
Dimethyl phthalate	99.0		
2,4-Dinitrotoluene	460.0		
2,6-Dinitrotoluene	330.0		
4,6-Dinitro-2-methyl Phenol	790.0		
Di-n-octyl phthalate	260.0		
Fluoranthene	170.0		
Fluorene	63.0		
Hexachlorobenzene	200.0		
Hexachlorobutadiene	130.0		
Hexachloroethane	66.0		
Hexachlorocyclopentadiene	690.0		
Ideno(1,2,3-c,d)pyrene	530.0		
Isophorone	99.0		
2-Methyl-4,6-dinitrophenol	790.0		
2-Methyl naphthalene	240.0 260.		
2-Methyl phenol (o-cresol)	99.0		
3-Methyl phenol (m-cresol)	330.0		
4-Methyl phenol (p-cresol)	130.0		

## Tentatively Identified Compound

Name	Scan #	Results
Alkylated hydrocarbons	(100-1600)	27000
Dibenzyl hydrocarbons	(1000-1950)	850
Methyl ethyl phenanthrenes	(1000-1600)	400
2-Methyl-4,6-dinitrophenol	(2400-2600)	1600
Molecular sulfur (S <sub>8</sub> )	(1200-1600)	47000

RECEIVED

JUL 01 1986

Utah State Div. Of  
Environmental HealthU- Analyzed for but not  
detected.J- An estimated value for a  
tentatively identified compd OR  
a value less than the detec-  
tion limit but greater than  
zero.

E- Found in the blank.

Preparation and Analysis By: J. Salomon BC & RB  
Analysis Certified By: J. Salomon

Date: 6-26-86

Date:



EPA METHOD 824 (GC/MS)  
Purgeables

Set # 3295-3900  
Lab #  
86-4149  
FOR LAB USE ONLY

Send Report To:

Utah State Dept of Health  
44 Medical Drive  
Salt Lake City, UT 84113

Field # CW86-114 Date/Time Collected 5-22-86 12:45 Sample Matrix Soil  
Collected By J. Salmon Sampling Site Normal Utah Pense Const. Co.  
Exact Description of Sampling Point off site composite - spill area  
Analyst R. Miller Date Rec'd 5-28-86 Date Analyzed 6-14-86  
Amt. Purged 5 gm (MDL based on 5ml purge vol.) Dilution 1

ug/L or ug/Kg		ug/L or ug/Kg	
X Name	MDL/RESULTS	Tentatively Identified Compounds	
Acetone	29.8 330	Name	Scan# Results
Acrolein	10.U	C2-2-C4 Alcohols	143 AS
Acrylonitrile	10.U		
Benzene	1.U		
Bromodichloromethane	1.U		
Bromoform	1.U		
Bromomethane	2.U		
2-Butanone (MEK)	4.U		
Carbon Disulfide	2.U		
Carbon Tetrachloride	1.U		
Chlorobenzene	1.U		
Chloroethane	2.U		
2-Chloroethylvinylether	5.U		
Chloroform	2.U		
Chloromethane	5.U		
Cyclohexane	2.U		
Dibromochloromethane	1.U		
1,2-Dichlorobenzene (ortho)	1.U		
1,3-Dichlorobenzene (meta)	1.U		
1,4-Dichlorobenzene (para)	1.U		
1,1-Dichloroethane	1.U		
1,2-Dichloroethane	1.U		
1,1-Dichloroethene	1.U		
trans-1,2-Dichloroethene	3.U		
1,2-Dichloropropane	1.U		
cis-1,3-Dichloropropene	1.U		
trans-1,3-Dichloropropene	1.U		
Ethyl Benzene	1.U		
2-Hexanone (Methyl n-butyl ketone)	3.U		
Isobutanol	5.U		
Methylene Chloride (Dichloromethane)	4.U 36		
4-Methyl-2-Pentanone (MIBK)	2.U		
Styrene	1.U		
1,1,2,2-Tetrachloroethane	1.U		
Tetrachloroethene (PCE)	1.U		
Toluene	1.U		
1,1,1-Trichloroethane (Methyl Chloroform)	1.U		
1,1,2-Trichloroethane	1.U		
Trichloroethene (TCE)	1.U		
Trichlorofluoromethane (Freon II)	2.U		
Vinyl Acetate	4.U		
Vinyl Chloride	2.U		
Total Xylenes	1.U		

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JUL 01 1986

Utah State Div. Of  
Environmental Health

U - Analyzed for but not detected.

J - An estimated value for a tentatively identified compound OR a value less than the detection limit but greater than zero.

B - Found in the blank.

Preparation and Analysis By: R. Miller

Date: 6-24-86

HW-1 2/82

## ENVIRONMENTAL CHEMISTRY HAZARDOUS WASTES CHARACTERISTICS REPORT FORM

UTAH STATE HEALTH LABORATORY

May 28 86 084148

44 Medical Drive  
SLC Utah 84113  
(801) 533-6131Field No. HW 86-114 ☐ Known Hazardous Waste ☒ Unknown Material LAB NUMBER \_\_\_\_\_Date Collected 56 05 92 Time Collected 12 45 County Uintah  
year/month/day 24-hr. clockSample Collected by Jim SalmonSample Type SoilFacility from which sample was collected Rocky Mts. & Trucking Co.Exact description of sampling point FT ST- Soil Cont. Post 12 Frontoff main gate from SP11Field tests NoneSend Report to Jim Salmon Telephone No. 538-6170BCHW

Zip Code \_\_\_\_\_

Date and Time received by Lab \_\_\_\_\_

Received by \_\_\_\_\_

\*\*\*\*\*  
IGNITABILITY (D001) \_\_\_\_\_CORROSIVITY (D002) pH 5.5 (1 in 20) JUN 24 1986

Other \_\_\_\_\_

REACTIVITY (D003) Fluoride <1 PPMUtah State Div. Of  
Environmental Health

EPA Hazardous Waste Number	Contaminant	Maximum Allowable Concentration		Reported Concentration	
D004	Arsenic	5.0	ppm	<u>&lt;.01</u>	ppm
D005	Barium	100.0	ppm	<u>&lt;.1</u>	ppm
D006	Cadmium	1.0	ppm	<u>&lt;.01</u>	ppm
D007	Chromium (hexa)	5.0	ppm	<u>&lt;.1</u>	ppm
D008	Lead	5.0	ppm	<u>&lt;.2</u>	ppm
D009	Mercury	0.2	ppm	<u>&lt;.0002</u>	ppm
D010	Selenium	1.0	ppm	<u>&lt;.01</u>	ppm
D011	Silver	5.0	ppm	<u>&lt;.01</u>	ppm
D012	Endrin (1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo, endo-5,8-dimethano naphthalene)	0.02	ppm		ppm
D013	Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)	0.4	ppm		ppm
D014	Methoxychlor (1,1,1-trichloro-2,2-bis (p-methoxyphenyl) ethane)	10.0	ppm		ppm
D015	Toxaphene (C <sub>10</sub> H <sub>10</sub> Cl <sub>8</sub> , Technical chlorinated camphene, 67-69 percent chlorine)	0.5	ppm		ppm
D016	2,4-D (2,4-dichlorophenoxyacetic acid)	10.0	ppm		ppm
D017	2,4,5-TP Silvex (2,4,5-trichlorophenoxypropionic acid)	1.0	ppm		ppm

\*\*\*\*\*  
Sample was processed and analyzed in accordance with EPA Document SW-846 and subsequent revisionsPreparation and analyses performed by Doyle Gregory Jenkins

Analyses certified by \_\_\_\_\_

J. C. Man Date 24 June 86

CONDITIONAL COMMENTS ON BACK

HW-5 6/85

UTAH STATE HEALTH LABORATORY  
44 Medical Dr. SLC, Utah 84113 (801) 533-6131

ENVIRONMENTAL CHEMISTRY

TOTAL METALS AND OTHER ANALYSES

LAB NUMBER

MAY 29 06 86 4148

Field No. 4186-1141

☐ Known Hazardous Waste

☐ Unknown Material

Date Collected 86 05 22

Time Collected 1245

County Utah

Sample collected by Jim Salmon

24 hr. clock

Sample Type Soil

Facility from which sample was collected Prose Const. & Trenching Co.

Exact description of sampling point off St. 111 Front of Main 950  
Soil Composite From Spill

Field tests none

Send report to Jim Salmon

Telephone No. \_\_\_\_\_

Address BCHW

Zip Code \_\_\_\_\_

Date and time received by Lab. \_\_\_\_\_

Received by \_\_\_\_\_

OTHER ANALYSES

☐ Oil and Grease

PPM

☐ T.K.N.

PPM

☐ Reactive HCN

PPM

☒ Reactive H<sub>2</sub>S

<1

PPM

☒ pH 1 in 20

5.5

☒ Solids

62.8 %

TOTAL METALS

check one of the following

☒ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)

☐ or all 18 Metals listed below

☐ or only those Metals checked below

☐ Aluminum

PPM

☐ Arsenic

5.4

PPM

☐ Barium

<20

PPM

☐ Beryllium

PPM

☐ Cadmium

<.4

PPM

☐ Chromium

66.

PPM

☐ Cobalt

PPM

☐ Copper

PPM

☐ Iron

PPM

☐ Lead

47.

PPM

☐ Manganese

PPM

☐ Mercury

0.048

PPM

☐ Molybdenum

PPM

☐ Nickel

PPM

☐ Selenium

0.03

PPM

☐ Silver

1.66

PPM

☐ Vanadium

PPM

☐ Zinc

PPM

☐

PPM

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JUN 26 1986

Utah State Div. Of  
Environmental Health

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by Doyle Gregory Jenkins

Analysis Certified By \_\_\_\_\_

Date 24 June 86

Attachment B: Summary of Drum Containment Activity (5-22-86)



STATE OF UTAH  
DEPARTMENT OF HEALTH

NORMAN H. BANGERTER, GOVERNOR

SUZANNE DANDOLY, M.D., M.P.H., EXECUTIVE DIRECTOR

June 11, 1986

MEMORANDUM TO: Ken Alkema, Director  
Division of Environmental Health

FROM: Laurie Goldner  
Emergency Response Coordinator

James Salmon  
Environmental Health Scientist

SUBJECT: Summary: Vernal Drums -- May 22, 1986

Participants: Laurie Goldner, Utah Bureau of  
Solid & Hazardous Waste  
Jim Salmon, Utah Bureau of Solid & Hazardous  
Waste  
Joe Schaffer, Uintah Basin District Health  
Department  
Lowell Card, Uintah Basin District Health  
Department

Owner of Lot: R. W. Pease Construction & Trucking Company, Vernal.

Owner of Drums: Jack Durban, Royal Mud Co., Vernal

Containers (42 total)

Photo #4  
Photo #5

17 5-gallon pails with hazard & toxic labels--no leakers.  
25 5-gallon pails asphalt mix--no leakers.

Drums (96 total)

Photos #1, 2, 13,  
14, 15

1-30 Corroded drums with inner plastic liners, possibly  
hydrochloric acid or ammonium bisulfite sludge.  
Visible contents was yellow crystalline  
substance. Sealed drums may have contained  
liquid.

Seven of the drums were completely corroded  
through outer metal so that plastic liner was  
totally exposed. Five - seven plastic liners were  
leaking or had leaked.

KENNETH L. ALKEMA, DIRECTOR • DIVISION OF ENVIRONMENTAL HEALTH



Sampling

Actual

The following samples were collected and delivered to the State Health Laboratory for analysis:

<u>Sample #</u>	<u>Description</u>
1, 2	Drum 17; yellow crystals
3	Drum 43; liquid surfactant
4	Drum 37; waste oil ?
5, 6	Drum 24; yellow crystals
7	Soil composite in stained area outside gate
8	Drum 34; diesel ?
9	Drum 36; waste oil ?
10-12	Blanks

Sixteen Polaroid photographs were taken at the site.

May 27, 1986 -- Over the weekend the following events took place:

1. Mr. Jack Durban, owner of the drums in question, came forward and took responsibility for the management of the drums by doing the following:
  - A. Repacked drums 1-30 (contained acid or ammonium bisulfite, according to Mr. Durban).
  - B. Repacked drums 31-33 (AZ-32 polymer, according to Mr. Durban).
  - C. Waste oils and diesel fuel drums were moved to a safe location at the southwest corner of the property. The open drum was repacked.
  - D. All visible contaminated soils from leaks and spills will be picked up and overpacked by the end of the week. When test results are available, the proper management of these drums and their contents will be selected and enacted.
2. Mr. Joe Schaffer, Uintah Basin District Health Department, has the situation under control. Mr. Durban has been very cooperative and, along with Mr. Schaffer, will manage the drums and their contents in a proper manner.

cc: Dale Parker  
Loretta Pickerell  
File

JS/pw

7578U/28-30

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STEELCASE

SAS035

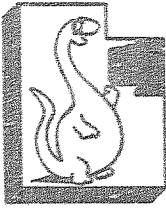
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SAS035

Attachment C: Site Update





## UINTAH BASIN DISTRICT HEALTH DEPARTMENT

Reply To:  
Uintah County Courthouse, Vernal, UT 84078 - (801) 781-0770 ☐  
Duchesne County Courthouse, Box 210, Duchesne, UT 84021 - (801) 738-5370 ☐  
Daggett County Courthouse, Box 156, Manila, UT 84045 - (801) 784-3494 ☐  
Roosevelt Branch Office, 57 No. 100 East (83-7), Roosevelt, UT 84066 - (801) 722-5085 ☐

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Utah Dept. of Health  
Bureau of Solid & Hazardous Waste

Joseph B. Shaffer, M.A.  
Director  
Health Officer

Norma Nawahine, R.N.  
Nursing Supervisor

Lowell Card, R.S.  
Environmental Health  
Supervisor

Katherine Gardiner  
Office Manager

Board of Health Members

LaRae Sadlier  
Lee Nelson  
Jim Reidhead  
Ellen Rawlings  
Kay Campbell  
Keith Goodspeed  
Richard Jolley, D.D.S.  
Wm. T. Durant, M.D.  
Gary Wold, M.D.

Ms Laurie Goldner  
Dept. of Solid & Hazardous Waste  
P.O. Box 16690  
Salt Lake City, Ut 84116-0609

September 25, 1987

Regarding: Clean up of Pease site in Vernal.

Dear Laurie:

After our telephone conversation, I made a visit to the Pease site where the drums were leaking approximately 1½ - 2 years ago. I observed that all but five or six of the barrels have been removed. The site was closed and entry restricted so I did not go in to determine if there were materials in the drums left at the site. There is an apparent oil skum across a portion of the paved area where the drums had been located. There was no evidence of chemicals coming up from the ground as I had suspected may be occurring. The stain on the pavement appears to be an oil waste type rather than a chemical product.

I trust this information will suffice in you making a closure report of this incident.

Sincerely,

Lowell Card  
Environmental Health Supervisor

LC/es

quantity of the specimen being tested

STATE ASSISTANT

SAS035

quality of the document  
being turned  
down due

SITE/SITE ASSESSMENT

SAS035

Attachment D: Well Records

Table 1

Well records from  
Utah Department of Natural Resources Well records  
October 1986.

	Well A	Well B	Well C
Name	Murray, Leland P.	Batty, P. & I	Price, Dan
Address	630 West 200 North	721 South 500 West	460 South 200 West
Depth, Well 1	50'	95'	50'
Depth, Well 2	0	0	100'
Families served	1	1	1
Irrigated land, total	0	0.25 acre	0.25 acre

9603U/13